

COPY OF PAPERS ORIGINALLY FILED

SEQUENCE LISTING

<110> Cheung, Nai-Kong V Larson, Steven M. Guo, Hong-Fen Rivlin, Ken Sadelain, Michel

<120> Single Chain FV Constructs of Anti-Ganglioside GD2 Antibodies

<130> MSK.P-013-2

<140> 10/075,947

<141> 2002-02-13

<150> 09/142,974

<151> 1998-09-18

<150> PCT/US97/04427

<151> 1997-03-20

<150> 60/013,703

<151> 1996-03-20

<160> 5

<170> PatentIn Ver. 2.1

<210> 1

<211> 717

<212> DNA

<213> Murine

<220>

<223> 5F11-scFv

<220>

<221> unsure

<222> (37)

<220>

<221> unsure

<222> (79)

<400> 1

caggtgaaac tgcagcagtc aggacctgaa ctggtgnagc ctggggcttc agtgaagata 60 tcctgcaaga cttctggana caaattcact gaatacacca tgcactgggt gaagcagagc 120 catggaaaga gccttgagtg gattggaggt attaatccta acaatggtgg tactaactac 180 aagcagaagt tcaagggcaa ggccacattg actgtagaca agtcctccag cacagcctac 240 atggagcccgt ttgcttactg ggtccaaggg accacggtca ccgtctcctc agggggaggc 360 ggttcaggcg gaggtggctc tggcggtggc ggatcggaca tcgagctcac tcagtctcca 420 gcaatcatgt ctgcatctcc aggggagaag gtcaccatga cctgcagtgg cagctcaagt 480 ataagttaca tgcactggta ccagcagaag cctgtcacct cccccaaaag atggatttat 540 gacacatcca aactggctc tggagtccct gctgctcac gtggcagtgg gtctgggacc 600 tcttattctc tcacaatcag cagcatggag gctgtagatg ctgccactta ttactgccat 660 cagcggagta gttacccgct cacgttcggt gctgggacac agttggaaat aaaacgg 717

RECEIVED
JUL 1 0 2003
JUL 1 0 1600/2900

RECLIVED
JUN 12 2002

```
<211> 714
<212> DNA
<213> Murine
<220>
<223> 3G6-scFv
<400> 2
agtattgtga tgacccagac tcccaaattc ctgcttgtat cagcaggaga cagggttacc 60
ataacctgca aggccagtca gagtgtgagt aatgatgtgg cttggtacca acagaagcca 120
gggcagtete egaaactget gatatactet geatecaate getacaetgg agteeetgat 180
cgcttcactg gcagtggata tgggacggat ttcactttca ccatcagcac tgtgcaggct 240
gaagacctgg cagtttattt ctgtcagcag gattatagct cgctcggagg ggggaccaag 300
ctggaaataa aaggtggagg cggttcaggc ggaggtggct ctggcggtgg cggatcgcag 360
gtgcaggtga aggagtcagg acctggcctg gtggcgccct cacagagcct gtccatcact 420
tgcactgtct ctgggttttc attaaccaat tatggtgtac actgggttcg ccagcctcca 480
ggaaagggtc tggagtggct gggagtaata tgggctggtg gaagcacaaa ttataattcg 540
gctcttatgt ccagactgag catcagcaag gacaactcca agagccaagt tttcttaaaa 600
atgaacagtc tgcaaactga tgacacagcc atgtactact gtgccagtcg ggggggtaac 660
tacggctatg ctttggacta ctggggtcaa ggaacctcag tcaccgtctc ctca
<210> 3
<211> 1176
<212> DNA
<213> Murine
<220>
<223> 5F11-scFv-streptavidin
<220>
<221> unsure
<222> (37)
<220>
<221> unsure
<222> (79)
<400> 3
caggtgaaac tgcagcagtc aggacctgaa ctggtgnagc ctggggcttc agtgaagata 60
tectgeaaga ettetggana caaatteact gaatacacca tgeactgggt gaageagage 120
catggaaaga gccttgagtg gattggaggt attaatccta acaatggtgg tactaactac 180
aagcagaagt tcaagggcaa ggccacattg actgtagaca agtcctccag cacagcctac 240
atggagetee geageetgae atetgaggat tetgeagtet attactgtge aagagataet 300
acggtcccgt ttgcttactg ggtccaaggg accacggtca ccgtctcctc aggtggaggc 360
ggttcaggcg gaggtggctc tggcggtggc ggatcggaca tcgagctcac tcagtctcca 420
gcaatcatgt ctgcatctcc aggggagaag gtcaccatga cctgcagtgg cagctcaagt 480
ataagttaca tgcactggta ccagcagaag cctgtcacct cccccaaaag atgqatttat 540
gacacatcca aactggcttc tggagtccct gctcgcttca gtggcagtgg gtctgggacc 600
tcttattctc tcacaatcag cagcatggag gctgtagatg ctgccactta ttactgccat 660
cagcggagta gttacccgct cacgttcggt gctgggacac agttggaaat aaaacgggcg 720
gccgctggat ccggtgctgc tgaagcaggt atcaccggca cctqqtacaa ccaqctcqqc 780
tegacettea tegtgacege gggegeegae ggegeeetga eeggaaceta egagteggee 840
gtcggcaacg ccgagagccg ctacgtcctg accggtcgtt acgacagcgc cccggccacc 900
gacggcagcg gcaccgccct cggttggacg gtggcctgga agaataacta ccgcaacgcc 960
cacteegega ceaegtggag eggeeagtae gteggeggeg eegaggegag gateaacace 1020
cagtggctgc tgacctccgg cacaaccgag gccaacgcct ggaagtccac gctggtcggc 1080
cacgacacct tcaccaaggt gaagecgtee geegeeteeg gateegaaca aaagetgate 1140
tcagaagaag atctatgcat acatcaccat catcat
```

```
<210> 4
<211> 1173
<212> DNA
<213> Murine
<220>
<223> 3G6-scFv-streptavidin
<400> 4
agtattgtga tgacccagac tcccaaattc ctgcttgtat cagcaggaga cagggttacc 60
ataacctgca aggccagtca gagtgtgagt aatgatgtgg cttggtacca acagaagcca 120
gggcagtctc cgaaactqct gatatactct gcatccaatc gctacactgg agtccctgat 180
cqcttcactq qcaqtqqata tqqqacqqat ttcactttca ccatcaqcac tqtqcaqqct 240
qaaqacctqq caqtttattt ctqtcagcaq gattatagct cgctcggagg ggggaccaag 300
ctggaaataa aaggtggagg cggttcaggc ggaggtggct ctggcggtgg cggatcgcag 360
gtgcaggtga aggagtcagg acctggcctg gtggcgccct cacagagcct gtccatcact 420
tgcactgtct ctgggttttc attaaccaat tatggtgtac actgggttcg ccagcctcca 480
ggaaagggtc tggagtggct gggagtaata tgggctggtg gaagcacaaa ttataattcg 540
gctcttatgt ccagactgag catcagcaag gacaactcca agagccaagt tttcttaaaa 600
atgaacagtc tgcaaactga tgacacagcc atgtactact gtgccagtcg ggggggtaac 660
tacggctatg ctttggacta ctggggtcaa ggaacctcag tcaccgtctc ctcagcggcc 720
getggateeg gtgetgetga ageaggtate aceggeacet ggtacaacea geteggeteg 780
acettcateg tgacegeggg egeegaegge geeetgaceg gaacetaega gteggeegte 840
ggcaacgccg agagccgcta cgtcctgacc ggtcgttacg acagcgcccc ggccaccgac 900
ggcagcggca ccgccctcgg ttggacggtg gcctggaaga ataactaccg caacgcccac 960
teegegacea egtggagegg ceagtacgte ggeggegeeg aggegaggat caacaccag 1020
tggctgctga cctccggcac aaccgaggcc aacgcctgga agtccacgct ggtcggccac 1080
gacacettea ecaaggtgaa geegteegee geeteeggat eegaacaaaa getgatetea 1140
gaagaagatc tatgcataca tcaccatcat cat
<210> 5
<211> 13
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: antibody tag
<400> 5
Gly Ala Pro Val Pro Val Pro Asp Pro Leu Glu Pro Arg
```